

**Amendments to the claims:**

This listing of the claims will replace all prior versions and listings of the claims in the application:

**Listing of Claims:**

1. (Currently amended) ~~Apparatus~~ An apparatus for manipulating a target object in an in-cell region of a vitrification plant, comprising:
  - a base securable to a trolley; and
  - a hydraulic arm mounted on ~~said the~~ base arranged for being controlled remotely by a user located outside ~~said the~~ in-cell region; wherein
  - ~~said the~~ arm includes, at an end distal from ~~said the~~ base, a tool coupling arranged to receive a tool for performing work on ~~said the~~ target object.
2. (Currently amended) The apparatus as claimed in claim 1 wherein ~~said the~~ in-cell region includes a melter trolley, arranged to receive a canister into which a melt, formed during a vitrification process, is poured, and a plurality of connectors which are arranged for providing cooling fluid from a fluid source external to ~~said the~~ in-cell region to an induction furnace located in the in-cell region.
3. (Currently amended) The apparatus as claimed in claim 1 ~~or 2~~ wherein ~~said the~~ hydraulic arm is arranged to have three degrees of movement.
4. (Currently amended) The apparatus as claimed in claim 1, ~~2 or 3~~ further comprising:
  - a hydraulic power pack for raising and lowering ~~said the~~ arm with respect to ~~said the~~ base and including hydraulic fluid.

5. (Currently amended) The apparatus as claimed in claim 4 wherein ~~said~~ the hydraulic fluid is water.

6. (Currently amended) The apparatus as claimed in claim 2 wherein ~~said~~ the target object comprises a portion of one of ~~said~~ the connectors, each of ~~said~~ the connectors comprising a through wall connection connecting ~~said~~ the fluid source to an in-cell location through a protective wall.

7. (Currently amended) The apparatus as claimed in claim 6 wherein ~~said~~ the portion comprises a portion of ~~said~~ the connector between an in-cell surface of ~~said~~ the protective wall and ~~said~~ the location.

8. (Currently amended) The apparatus as claimed in ~~any one of claims 1 to 7~~ claim 1 further comprising:

a plurality of clamp devices each being controllable remotely to secure the base to an in-cell slewing ring of the melter trolley.

9. (Currently amended) The apparatus as claimed in ~~any one of claims 1 to 8~~ wherein said claim 1 wherein the tool comprises any one of a clamp, vacuum nozzle, reciprocating saw and/or chisel.

10. (Currently Amended) A chisel tool arranged for securing to ~~the~~ a tool coupling of an apparatus for manipulating a target object in an in-cell region of a vitrification plant, the apparatus comprising a base securable to a trolley; and a hydraulic arm mounted on the base arranged for being controlled remotely by a user located outside the in-cell region; wherein the arm includes the tool coupling at an end distal from the base, the chisel tool the apparatus claimed in any one of claims 1 to 8, and comprising:

a drive unit arranged to receive a chisel bit and to drive a chisel so received in a reciprocating motion;

a support including securing means for securing the drive unit to the support; and

a coupling member arranged to engage with the tool coupling of ~~said~~ the apparatus for manipulating a target object to thereby hold ~~said~~ the chisel tool in a predetermined fixed relationship with respect of ~~said~~ the arm.

11. (Currently amended) The chisel tool as claimed in claim 10 further comprising:

a lifting member located on ~~said~~ the support for providing a means by which ~~said~~ the chisel tool can be located proximate to ~~said~~ the apparatus and thereafter coupled to ~~said~~ the apparatus.

12. (Currently amended) A saw tool arranged for securing to the tool coupling of an apparatus for manipulating a target object in an in-cell region of a vitrification plant, the apparatus comprising a base securable to a trolley; and a hydraulic arm mounted on the base arranged for being controlled remotely by a user located outside the in-cell region; wherein the arm includes the tool coupling at an end distal from the base, the saw tool ~~the apparatus as claimed in any one claims 1 to 8,~~ and comprising:

a drive unit arranged to receive a saw blade member and to drive a saw blade member so received in a reciprocating motion;

a support including securing means for securing the drive unit to the support; and

a coupling member arranged to engage with the tool coupling of the apparatus for manipulating a target object to thereby hold ~~said~~ the saw tool in a predetermined fixed relationship with respect to ~~said~~ the arm.

13. (Currently amended) The saw tool as claimed in claim 12 further comprising:

a lifting member located on ~~said~~ the support for providing a means by which ~~said~~ the saw tool may be located proximate to ~~said~~ the apparatus and thereafter coupled to ~~said~~ the apparatus.

14. (Currently amended) A holding tool arranged for securing to the tool coupling of an apparatus for manipulating a target object in an in-cell region of a vitrification plant, the

apparatus comprising a base securable to a trolley; and a hydraulic arm mounted on the base arranged for being controlled remotely by a user located outside the in-cell region; wherein the arm includes the tool coupling at an end distal from the base, the holding tool the apparatus as claimed in any one of claims 1 to 8 further comprising:

means for lifting arranged to be advanced under and engage with a lower surface of said the target object and for lifting said the target object when an arm of the apparatus for manipulating a target object to which said the holding tool is coupled is raised; and

a support back plate having a lower edge from which said the means for lifting extends at a substantially perpendicular angle.

15. (Currently amended) The holding tool as claimed in claim 14 further comprising:

a rest member extending upwardly from said the means for lifting and angled backwardly with respect to said the means for lifting whereby as a target object is lifted a portion of said the target object engages with a region of said the rest member and rocks backwardly about this point and away from said the lifting member until the target object is supported by said the rest member.

16. (Currently amended) The holding tool as claimed in claim 15 further comprising:

a locking mechanism including a locking finger which is arranged to lock a target object at a predetermined ~~located~~ location when said the target object is supported by said the rest member.

17.-18. (Canceled).